AEE|KSD|SBR|49|13-14
dt 29|6|13

R|O 29|6|13

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

188222

Serial No. 1st and final Bill

Name of work... Improvements to Road and drains and Asphalting to Road in Vinayaka layout 1st main 2nd stage

Name of Contractor or nature of Agency...

Date of commencement of work... in ward no 7

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	EST COST Rs 19.90 lakhs						
	pcodeNO: 1471/12-13 PWD 12-13						
	JOBNO: 007-13-000010.						
	AS NO: JC(y) AS/106/12-13						
	TSNO: EE/BTP/TS/303/12-13						
	AgNO: EE/BTP/Ag/04/12-13						
	Agency: M.R. Ginish.						
①	Removing B.S. Slab & drain and Stacking						
	Qty Recorded in this MB vide P.NO 188280						

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = 1590.63 Sqm limited to 943.80 Sqm @ Rs 45.36/Sqm					Rs 42811=00	
	2) Refixing stone slab of drain and pointing in CM 1:6 including fixing curing etc Complete						
	I st Cross Road Vinayaka layout Hectyr L/S	2	30.0	–	1.35	81.00	
		2	30.0	–	1.35	81.00	
		2	16.30	–	1.35	44.01	
	R/S	2	30.0	–	1.35	81.00	
		2	30.0	–	1.35	81.00	
		2	4.10	–	1.35	11.07	
	2nd Cross Road L/S	2	30.0	–	1.35	81.00	
		2	30.0	–	1.35	81.00	
		2	17.30	–	1.35	46.71	
						595.76	

Serial No.....

Name of work.....

Name of Contractor of nature

Date of commencement of w

Date	Full description, etc, of
1	2
	R/S
	Qty limite
	3) providing g dressed and A curing etc co

BOOK

Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
itted to 943.80 Sqm @ Rs 428.11 = 00			
/Sq m			
and pointing in			
uring etc Complete			
–	1.35	81.00	
–	1.35	81.00	
–	1.35	44.01	
–	1.35	81.00	
–	1.35	81.00	
–	1.35	11.07	
–	1.35	81.00	
–	1.35	81.00	
–	1.35	46.71	
		595.76	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 188223

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Rls	2	30.0	–	1.35	81.00	
		2	30.0	–	1.35	81.00	
		2	20.50	–	1.35	55.35	
					Totally	813.44	
	Qty limited to 660.66 Sqm @ Rs 64.26/Sqm					Rs	42454 = 00
	3) providing granite slab of selected quality Roughly dressed and fixing in CM 1:6 including fixing curing etc complete as per specifications						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3rd cross. R/s	2	30.0	—	1.35	81.00	
		2	30.0	—	1.35	81.00	
		2	23.0	—	1.35	62.10	
	4/8	2	30.0	—	1.35	81.00	
					totally	305.10	
	Qty limited to	188.78 cum.					
		Cum	321.67			Rs	60718=00
4)	E.W. Excavation by Manual Means in O.Soil including an Avg horizontal through up to 2m and an Avg lift up to 0.5m Excavated up to 2m Surface levelled and sides neatly dressed the deposited earth to be levelled etc complete as per Drg & site as						
	IST main Road R/s	1	76.30	6.40	0.2	97.664	

Serial No.....

Name of work.....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
4/s	TT 2nd cross 4/s R/s 3rd cross 4/s R/s 4th cross 4/s Qty limit

OK

th	Depth 6	Contents 7	Reference to last Measurement 8
	1.35	81.00	
	1.35	81.00	
	1.35	69.20	
	1.35	81.00	
	Totally	305.00	
67		Rs	60718=00
	0.Soil nivalling		
	2m and an Avg		
	Sundall levelled		
	rosified earth		
	Cross Sections		
20	0.2	97.667	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11 188224

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
4s	1st	1	64.10	6.80	0.20	87.17 cm	
	2nd cross 4s	1	77.0	6.30	0.20	97.02	
	4s	1	80.50	6.30	0.20	101.43	
	3rd cross 4s	1	76.0	6.20	0.20	94.48	
	4s	1	108.70	6.30	0.20	136.96	
	4th cross 4s	1	90.0	6.80	0.20	122.40	
					Totally	737.12 cm	
	Qty limited to		686.40 cm				
	@Rs		59.49/cm			Rs	40834=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5)	Compaction of original Ground with deviations & 6 nos of 8 to 10T power Roller including filling in depression occuring during rolling including cost & all labour Hire & Machinary Complete as per Specifications						
	Ist cross Ls	1	76.20	6.40	–	487.68	
	Rls	1	64.10	6.80	–	435.88	
	IInd cross Ls	1	77.30	6.30	–	486.99	
	Rls	1	80.50	6.30	–	507.15	
	3rd cross Ls	~~1~~ 76.0	76.0	6.20	–	471.20	
	Rls	1	108.70	6.30	–	684.80	
	4th cross Ls	1	106.00	6.80	–	720.80	
					Totally	3794.57	

Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Qty. Unit H
6)	providing and Co
	to wet mix Macadam i
	Material with OMC
	Method of Tipping to
	the desired density C
	Ist cross Ls
	Rls
	IInd cross Ls
	Rls

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
d	with Masonry &			
	including Filling in			
	rolling including Cost &			
	any Complete as per			
20	6.40	–	487.68	
10	6.80	–	435.84	
30	6.30	–	486.99	
0	6.30	–	507.15	
0	6.20	–	471.20	
70	6.30	–	684.80	
00	6.80	–	720.80	
	Totally		3794.57	

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

188225

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty limited to 3432.0 Sqmt							
	@ Rs 3.86/Sqm						R	13,248=00
5)	providing and Compacting spreading graded granite to wet mix Macadam specification including previous the Material with OMC in Mechanical plant Conveying & Mixed Melted & Tipper to site laying Compacting Roller to achive the desired density Complete as per specification							
	IST Coat	M/S	1	76.20	6.40	0.20	95.73	
		Rs	1	64.10	6.80	0.20	87.17	
	IInd Coat	M/S	1	77.30	6.30	0.20	97.39	
		Rs	1	80.50	6.30	0.20	101.43	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3rd cross LS	1	70.0	6.20	0.20	94.24 sqm	
	RS	1	108.70	6.30	0.20	136.96	
	4th cr LS	1	106.0	6.80	0.20	144.18	
				Totally		758.90 sqm	
	Qty limited to 686.40 cmt						
	@ 1080.67 cmt					Rs 741,772=00	
7)	providing and applying primer coat with bitumen Emulsion on prepared surface of clearing of Road surface and spraying primer coat @ 0.6 kg/sqm using Mechanical Means complete as per specification						
	Qty is same as item no 5						
	Qty = 3794.50 sq mt						
	limited to 3432.00 Sqmt						

Serial No.....

Name of work.....Fro

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number
1	2	3
	@	40.43
8)	providing and applying SD type HRP producing an Av using crushed aggregate g with Bitumen binder @ transporting the hot mix g p power finisher with Levis Co per specifications	
	ISkms LS	1
		1

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
70.0	6.20	0.20	94.24 cu	
108.70	6.30	0.20	136.96	
106.0	6.80	0.20	144.18	
	Totally		758.90 cu	
to 686.40 cub				
1080.67 cub			Rs 7,41,772=00	
primer coat with bitumen				
tar of Granular base including				
and spraying primer coat				
mical Rates complete as				
No 5				
2 mts				
00 Sqmt				

M.A.R. 57 (Rule 116)

Measurement Book No. A/11

188226

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Carried over	40.43 Sq m				Rs	1,38,758=00
8)	providing and applying SDBC of 25mm thick with 100/200 type HMP producing an Avg output of 75 tons per hour using crushed aggregate of specified grading premixed with Bituminous binder @ 4.5 to 5% of Mix and Filler transporting the hot Mix of same Site laying with hydraulic power finisher with Level Control of the roller etc complete as per Specifications						
	Istroad LS	1	30.0	6.40	0.025	4.80 cut	
		1	30.0	$\frac{6.4+6.60}{2}$	0.025	4.87	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	16.30	$\frac{6.60+6.2}{2}$	0.025	2.60 cubic mtr	
	RHS	1	30.0	$\frac{5.6+6.80}{2}$	0.025	4.65	
		1	30.0	$\frac{6.8+5.10}{2}$	0.025	4.46	
		1	4.10	5.10	0.025	0.52	
	2nd Cross LHS	1	30.0	$\frac{5.80+6.10}{2}$	0.025	4.46	
		1	30.0	$\frac{6.1+6.30}{2}$	0.025	4.65	
		1	17.30	$\frac{6.3+6.40}{2}$	0.025	2.74	
	RHS	1	30.0	$\frac{6.40+6.80}{2}$	0.025	4.87	
		1	30.0	$\frac{6.60+6.0}{2}$	0.025	4.72	
		1	20.50	6.0	0.025	3.07	

Serial No.....

Name of work.....

Name of Contractor of nature of Age

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	3rd Cross RHS
	LHS
	4th Cross LHS

K

	Depth 6	Contents 7	Reference to last Measurement 8
	0.025	2.60 cubr	
	0.025	4.65	
	0.025	4.46	
	0.025	0.52	
	0.025	4.46	
	0.025	4.65	
	0.025	2.74	
	0.025	4.87	
	0.025	4.72	
	0.025	3.07	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11

188227

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	3rd Cross RHS	1	23.0	3.70	0.025	2.12 cubr	
		1	30.0	$\frac{5.0+6.80}{2}$	0.025	4.42	
		1	23.0	$\frac{6.80+5.90}{2}$	0.025	3.42	
	LHS	1	30.0	$\frac{6.70+6.50}{2}$	0.025	4.95	C&Fc
		1	30.0	$\frac{6.50+6.40}{2}$	0.025	3.48	29/6/2013
		1	30.0	$\frac{6.4+6.80}{2}$	0.025	4.95	
		1	18.70	6.80	0.025	3.17	
	4th Cross LHS	1	30.0	$\frac{7.0+6.40}{2}$	0.025	5.02	

EE
CB FC

REMENT BOOK

Date	Full description, etc, of wor	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.0	$\frac{1.40+7}{2}$	0.025	5.02 cub	
		1	30.0	$\frac{7.0+6.5}{2}$	0.025	5.06	
		1	16.0	$\frac{6.5+6.40}{2}$	0.025	2.58	
					Totally	89.55 cub	
	Qty limited to 85.80 cub @ Rs 9171.92/cub					Rs 786951=00	
9)	Ew. Excavation for foundation & building culverts wb lines and electrical conduits either in pits or in trench 1.5m and above in width in a soil not exceeding 1.5m in depth including dressing the bottom and sides or in pits and trench clearing the excavated soil clear. etc complete as per specifications						
	CD @ prpa Ex	1	8.10	1.80	0.90	13.12 cu	

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Dep
29/6/13

Serial No.....
Name of work.....
Name of Contractor of nature of Age
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Qty limited
10)	providing and lay
	Blocks with common
	Coarse aggregate cu
	Mixed concrete laid
	Compacted in founda
	Vertical etc complete
	@ Rs

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
30.0	$\frac{1.40+7.0}{2}$	0.025	5.02 cum	
30.0	$\frac{7.0+6.5}{2}$	0.025	5.06	
16.0	$\frac{6.5+6.40}{2}$	0.025	2.58	
	Totally		89.55 cum	
80 cum				
71.92/cum			Rs 78695/-00	
ndation of building culverts				
Conducting either in pits or in				
in width in a soil not Exceeding				
g dressing the bottom and				
ich shaving the Excavated				
as per specifications				
8.10	1.80	0.90	13.12 cum	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 188228

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty limited to 12.96 cum @ Rs 137.70/cum					Rs	1785=00
10)	providing and laying in pile of 0.6 x 1.20 of opc cum @ 22 kgs with uniform and dense size graded granite metal Coarse aggregate and fine aggregate of 0.075 cm Medium Mixed course sand in layer not Exceeding 15 cm thick well Compacted in foundation and plinth including cost & all Material etc complete as per specifications	1	8.10	1.80	0.90	4.37 29.1 cum	
	@ Rs	4357.97/cum				Rs	19,061=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
11)	providing and Constructing SSH in foundation with cy 1:6 stone Hammer dressed in Coarse not less than 20cm high bed stone at 2m apart in each course including cost & materials labour etc complete						
		2	8.10	0.60	0.60	5.83 cum	
	limited to 5.76 cum	@ Rs	2816.78/cum			Rs	16225=00
12)	providing and Removing Centering shuttering propping etc and Removal of form work for foundation Footings bar & Columns for Plain Concrete including cost of all material labour etc complete						
		1	8.10	0.60	4	4.86 cum	
		2	8.10	0.30	—	4.86	
		2	1.80	0.30	—	1.08	
						10.80 sqm	

Serial No.....

Name of work.....

Name of Contractor of nature of Agenc

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	@ Rs
13)	providing and layi Jelly & RRL & Ree wo completed including v finish CM 1:3 with a smooth coats
	Qty limited to 3.
14)	providing TMT steel R straightening cutting

UREMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
ing SSH in foundation with ch				
in Coarse not less than 20mm				
spent in each Course including				
the compet				
8.10	0.60	0.60	5.83 cuft	
@Rs	2816.78/cuft		Rs	16225=00
Centering shuttering propping				
works for foundation Footings				
concrete including cost of all				
ete				
8.10	0.60	4	4.86 SH	
8.10	0.30	—	4.86	
1.80	0.30	—	1.08	
			10.80 cuft	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/11 188229

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	@Rs	206.00 Sqft				Rs	2,225=00
13)	providing and laying cc using 20 mm and down size Jelly of RRL of Rec work laid in 15 cm thick layer and well compacted including vibrating curing etc including smooth finish cm 1:3 with all lead and lift etc complete as per specification						
		1	8.10	1.80	0.30	4.37 cuft	
	Qty limited to	3.31 cuft	@Rs	5752.86/cu		Rs	19,041=00
14)	providing TMT steel Reinforcement for Rec work including straightening cutting bending hooking placing in position						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lapping etc complete as per specifications including labour Material etc.						
	Qty Recorded in this MB vide p.no 188280						
	Qty 16mm ϕ		1944.0 m	x 1.624 kg/m	=	314.92	
	12mm ϕ		194.40 m	x 0.888 kg/m	=	172.62 kg	
				Totally		332.191 kg	
	Qty limited to ~~264~~ 331 Qty = ~~2.64~~ 3.32 Quintal						
	@ Rs 5752.56/Quintal					Rs ~~19,041=01~~	
	Qty = 332.191 kg = 3.32 Quintal						
	limited to 2.64 Quintal @ Rs 7469/Quintal					Rs 19718=40	
15)	providing Ruled pointing to Coarse stone Masonry with CM 1:3 20mm deep with						

Cert Fd line 29/6/13

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numb
1	2	3
	Raising Joints to depth & Cost of Materials labour etc	2
	Qty limited to 4.80	
	Certificate: Certified that the BBMP limi	

...MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
...ui...trochons ...cluding				
...vide...no 188280				
m x 1.62m/Length =			314.92	
m x 0.888kg/m =			172.62kg	
		Totally	332.19kg	
331				
264 Qty 2.52 Quintal				
752.56/Quintal			Rs 19,047=01	
Quintal				
@Rs 74.69/Quintal			Rs 197 18=00	
...ng to Course stone				
20mm deep after				

M.A.R. 57 (Rule 116)

Measurement Book

Serial No..... 188230

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Raising joints to depth of 20mm neatly finishing including cost of Materials labour curing complete as per specification						
		2	8.10	—	0.60	9.72Sqm	
	Qty limited to 4.80 Sqm @Rs 73.03/Sqm					Rs 351.00	
						Totally 19,88,895=00	
	Certificate: Certified that the above said work is done satisfactorily, workmanship in work spot and same is in with in the BSMP limit					JE 29/6/13.	